Title (en)

LITHIUM-ION ELECTROCHEMICAL CELL, COMPONENTS THEREOF, AND METHODS OF MAKING AND USING SAME

Title (de)

ELEKTROCHEMISCHE LITHIUM-IONEN-ZELLE, KOMPONENTEN DAVON SOWIE VERFAHREN ZUR HERSTELLUNG UND VERWENDUNG DAVON

Title (fr)

CELLULE ÉLECTROCHIMIQUE AU LITHIUM-ION, SES COMPOSANTS ET SES PROCÉDÉS DE FABRICATION ET D'UTILISATION

Publication

EP 2932553 B1 20200909 (EN)

Application

EP 13863879 A 20131127

Priority

- US 201261738275 P 20121217
- US 201313797281 A 20130312
- US 2013072174 W 20131127

Abstract (en)

[origin: US2014170478A1] An electrochemical cell including at least one nitrogen-containing compound is disclosed. The at least one nitrogen-containing compound may form part of or be included in: an anode structure, a cathode structure, an electrolyte and/or a separator of the electrochemical cell. Also disclosed is a battery including the electrochemical cell.

IPC 8 full level

H01M 10/0525 (2010.01); **H01M 10/0567** (2010.01); **H01M 50/414** (2021.01)

CPC (source: EP KR US)

H01M 4/131 (2013.01 - US); **H01M 4/134** (2013.01 - US); **H01M 4/382** (2013.01 - US); **H01M 4/505** (2013.01 - KR US); **H01M 4/525** (2013.01 - KR US); **H01M 4/661** (2013.01 - US); **H01M 4/667** (2013.01 - US); **H01M 10/0525** (2013.01 - EP KR US); **H01M 10/0567** (2013.01 - EP KR US); **H01M 10/0568** (2013.01 - US); **H01M 10/0569** (2013.01 - US); **H01M 50/414** (2021.01 - EP KR US); **H01M 50/46** (2021.01 - US); H01M 4/0404 (2013.01 - US); H01M 4/0421 (2013.01 - US); H01M 4/1391 (2013.01 - US); H01M 4/1395 (2013.01 - US); H01M 2004/021 (2013.01 - US); H01M 2004/027 (2013.01 - US); H01M 2004/028 (2013.01 - US); H01M 2300/0025 (2013.01 - US); H01M 2300/0037 (2013.01 - EP KR US); Y02E 60/10 (2013.01 - EP KR US); Y02P 70/50 (2015.11 - EP); Y02T 10/70 (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2014170478 A1 20140619; **US 9577289 B2 20170221**; CN 104969401 A 20151007; CN 111799498 A 20201020; EP 2932553 A1 20151021; EP 2932553 A4 20160727; EP 2932553 B1 20200909; JP 2016503944 A 20160208; JP 2019024009 A 20190214; JP 2021044254 A 20210318; JP 6873954 B2 20210519; JP 7237053 B2 20230310; KR 102247370 B1 20210430; KR 20150097605 A 20150826; KR 20200077619 A 20200630; US 10050308 B2 20180814; US 10468721 B2 20191105; US 11502334 B2 20221115; US 2017149089 A1 20170525; US 2017200975 A1 20170713; US 2018375155 A1 20181227; WO 2014099314 A1 20140626

DOCDB simple family (application)

US 201313797281 A 20130312; CN 201380066182 A 20131127; CN 202010449253 A 20131127; EP 13863879 A 20131127; JP 2015547396 A 20131127; JP 2018172458 A 20180914; JP 2020198508 A 20201130; KR 20157018567 A 20131127; KR 20207018053 A 20131127; US 2013072174 W 20131127; US 201715409410 A 20170118; US 201715429439 A 20170210; US 201816016985 A 20180625